| I | n | d | e | X | ( | <b>)</b> | f | C | :/. | a | ir | n | 5 |  |  |
|---|---|---|---|---|---|----------|---|---|-----|---|----|---|---|--|--|
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| Δn | plication | No  |
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Examiner

Applicant(s)

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Art Unit

Robert A. Zeman 16

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| √ | Rejected |
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| - | (Through numeral)<br>Cancelled |
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| Cla          | im                   |  |              |              | Г        | Date         |          |          |                | $\neg$   |
|--------------|----------------------|--|--------------|--------------|----------|--------------|----------|----------|----------------|--|
| Oic          |                      | $\vdash$   | ·            |              |          |              |          | - 1      | $\overline{}$  |  |
| Final        | Original             | 12/7/04  |              |              |          |              |          |          |                |  |
|              | 1<br>2<br>3          | ÷  |              |              |          |              |          |          |                |  |
|              | 2                    | +  |              |              |          |              |          |          |                |  |
|              | 3                    | +  |              |              |          |              |          |          |                |  |
|              | 4                    | +  |              |              |          |              |          |          |                |  |
|              | 5                    | +  |              |              |          |              |          |          |                |  |
| _            | 6                    | +  |              |              |          |              |          |          |                |  |
|              | 7                    | +  |              |              |          |              |          |          |                |  |
|              | 8                    | ÷  |              |              |          |              |          |          |                |  |
|              | 9                    | +  |              |              |          |              |          |          |                |  |
|              | 10                   | +  |              |              |          |              |          |          |                |  |
|              | 11<br>12<br>13       | +  |              |              |          |              |          |          |                |  |
|              | 12                   |  |              |              |          |              |          |          |                |  |
|              | 13                   |  |              |              |          |              |          |          |                |  |
|              | 14<br>15             |  |              |              |          |              |          |          |                |  |
|              | 15_                  |  |              |              |          |              |          |          |                |  |
|              | 16<br>17             |  |              |              |          |              |          |          |                |  |
|              | 17                   |  |              |              |          |              |          |          |                |  |
|              | 18                   |  |              |              |          |              | ,        |          |                |  |
|              | 19<br>20             |  |              |              |          |              | L        |          |                |  |
|              | 20                   |  |              |              |          |              |          |          |                |  |
|              | 21                   |  |              |              |          |              |          |          |                |  |
|              | 22                   |  |              |              |          |              |          |          |                |  |
|              | 22<br>23<br>24<br>25 |  |              |              |          |              |          | L        |                |  |
|              | 24                   |  |              |              |          |              |          |          |                |  |
|              | 25                   |  |              |              | Ĺ        |              |          |          |                |  |
|              | 26                   | L  | _            |              |          |              |          |          |                |  |
|              | 27<br>28             | L  |              |              |          |              |          |          |                |  |
|              | 28                   | <u> </u>   | L            |              |          |              |          |          |                | $\Box$   |
|              | 29                   |  |              |              |          | <u> </u>     |          |          |                | Ш  |
| <u> </u>     | 30                   |  |              |              | _        | _            | L_       | ļ        |                | Щ  |
|              | 31                   | _  | _            |              |          |              | L        |          |                |  |
|              | 32<br>33             |  |              | L.,          | <u> </u> |              |          |          | _              |  |
| <u> </u>     | 33                   | L  |              |              | <u> </u> |              |          |          | ļ              |  |
| ļ            | 34                   | ļ_   | _            | ļ            | _        |              | ļ        |          | <u> </u>       | L.,  |
|              | 35                   | <u> </u>   | <u> </u>     |              |          | _            | <u> </u> | <u> </u> |                |  |
|              | 36                   | <u> </u>   |              | <u> </u>     |          |              | ┞-       | ļ        | <u> </u>       |  |
|              | 37                   | _  | -            | _            |          | <u> </u>     | -        | <u> </u> | <u> </u>       | -  |
|              | 38                   |  | <del> </del> | <u> </u>     | _        | -            | ļ        | <u> </u> | _              | Н  |
| <u> </u>     | 39                   |  | <u> </u>     |              |          |              |          |          | ├-             | H  |
| <u> </u>     | 40                   | -  | $\vdash$     |              | ļ.—      | $\vdash$     | -        | -        | -              |  |
| -            | 41                   | <del>                                     </del> |              | $\vdash$     | $\vdash$ |              | <u> </u> | $\vdash$ | $\vdash$       | $\vdash$   |
|              | 42                   | -  | <del> </del> | -            | -        | -            | $\vdash$ | ┢        | -              | $\vdash$   |
|              | 44                   | ├  | -            | ⊢            | $\vdash$ |              | $\vdash$ | $\vdash$ |                | $\vdash$   |
| -            | 45                   | <del> </del>                                     | $\vdash$     |              | -        | $\vdash$     | $\vdash$ | $\vdash$ |                | Н  |
|              |                      | -  | -            | <del> </del> |          | ├            | ├        | -        | -              | H  |
| -            | 46<br>47             |  | $\vdash$     | ├—           | ├        | $\vdash$     | $\vdash$ | -        |                |  |
|              | 48                   | <del> </del>                                     |              | <del> </del> |          | $\vdash$     | $\vdash$ | $\vdash$ | -              |  |
|              | 49                   | -  | -            |              | $\vdash$ | <del> </del> | ├        | -        | <del>  -</del> | <del>                                     </del> |
| <del> </del> | 50                   | $\vdash$   | $\vdash$     | -            | -        | $\vdash$     | $\vdash$ | $\vdash$ |                | -  |
|              | JOU                  | 1  | L            | 1            | 1        | 1            | L        | L        |                | 1  |

| Cla   | im I                       | Date     |          |         |     |              |  |          |          |           |  |
|-------|----------------------------|----------|----------|---------|-----|--------------|--|----------|----------|-----------|--|
|       |                            | Т        |          |         | Ī   | Ī            |  |          |          | $\neg$    |  |
| g     | Original                   |          |          |         | •   |              |  |          |          |           |  |
| Final | ig                         |          |          |         |     |              |  |          | ļ        |           |  |
| _     | 1                          |          |          |         |     |              |  |          |          |           |  |
|       | 51<br>52<br>53<br>54<br>55 |          | $\neg$   |         | •   | $\neg$       |  |          |          |           |  |
|       | 52                         | T        |          |         |     |              |  |          |          |           |  |
|       | 53                         |          |          |         |     |              |  |          |          |           |  |
|       | 54                         |          |          |         |     |              |  |          |          |           |  |
|       | 55                         |          |          |         |     |              |  |          |          |           |  |
|       | 56                         |          |          |         |     |              |  |          |          |           |  |
|       | 57                         |          |          |         |     |              |  |          |          | _         |  |
|       | 58                         |          |          |         |     |              |  |          |          |           |  |
|       | 59<br>60                   |          |          | _       |     |              |  |          |          |           |  |
|       | 60                         |          |          |         |     |              |  |          |          |           |  |
|       | 61                         |          | $\Box$   | _       |     |              |  |          |          | $\Box$    |  |
|       | 62                         |          | _        |         |     |              |  |          |          |           |  |
|       | 63                         | _        |          |         |     |              |  |          |          |           |  |
|       | 62<br>63<br>64<br>65<br>66 | _        |          |         |     |              |  |          |          | $\square$ |  |
|       | 65                         |          | _        |         |     |              |  |          |          | $\vdash$  |  |
|       | 66                         |          |          |         |     |              |  | L        |          | $\vdash$  |  |
|       | 67                         |          |          |         |     |              |  | _        | $\sqcup$ |           |  |
|       | 67<br>68<br>69             |          |          |         |     |              |  |          | _        |           |  |
|       | 69                         | _        | _        |         |     |              |  |          |          |           |  |
|       | 70<br>71                   |          | _        |         |     | $\vdash$     |  | _        | Н        |           |  |
|       | 71                         | _        | _        |         |     |              | _  |          |          |           |  |
|       | 72                         |          |          |         | _   |              | _  |          |          |           |  |
|       | 72<br>73<br>74<br>75<br>76 | -        |          |         |     |              |  |          | _        |           |  |
|       | 75                         |          | -        |         |     | <u> </u>     |  |          |          | -         |  |
|       | 76                         |          | -        |         |     | <u> </u>     | -  |          |          |           |  |
|       | 77                         |          |          |         |     |              |  |          |          |           |  |
|       | 78                         |          |          |         | _   | -            |  |          | -        |           |  |
|       | 78<br>79                   | -        | $\equiv$ | _       |     | H            |  | _        |          |           |  |
|       | 80                         |          |          |         | _   |              | -  |          |          |           |  |
|       | 81                         | $\vdash$ |          |         | H   | <del> </del> | $\vdash$   | $\vdash$ | -        |           |  |
|       | 81<br>82                   | H        |          |         |     | Ι            | -  |          | Н        | -         |  |
|       | 83                         | $\vdash$ |          | H       |     | $\vdash$     | $\vdash$   | $\vdash$ |          | $\vdash$  |  |
|       | 84                         | $\vdash$ |          |         |     | Ι            | <del>                                     </del> |          |          |           |  |
|       | 85                         |          |          |         | Г   |              | $\vdash$   |          | 1        |           |  |
|       | 86                         |          |          | Г       |     |              |  |          |          | Г         |  |
|       | 87                         |          |          |         |     |              |  | T        |          | $\Box$    |  |
|       | 88                         |          |          |         |     |              |  |          |          | _         |  |
|       | 89                         |          |          |         |     | T -          |  |          |          |           |  |
|       | 90                         |          |          |         |     |              |  |          |          |           |  |
|       | 91                         |          |          |         | Γ   |              |  |          |          |           |  |
|       | 92                         |          |          | · · · · | l - |              |  |          |          |           |  |
|       | 93                         |          |          |         |     |              | $\Gamma$   |          |          |           |  |
|       | 94                         |          |          |         |     |              | L  |          |          |           |  |
|       | 95                         |          |          |         |     |              |  |          |          |           |  |
|       | 96                         |          |          |         |     |              |  |          |          |           |  |
|       | 97                         |          |          |         |     |              | L  |          |          | L         |  |
|       | 98                         |          |          |         |     |              |  |          |          |           |  |
|       | 99                         |          | L        |         |     |              |  | L        |          | L         |  |

| Cla      | aim               |            |              |          |                                     | Date         | <b>,</b> |                                     |              |          |
|----------|-------------------|------------|--------------|----------|-------------------------------------|--------------|----------|-------------------------------------|--------------|----------|
|          | <u>a</u>          |            |              |          |                                     |              |          |                                     |              |          |
| Final    | Original          |            |              |          |                                     |              |          |                                     |              |          |
| 证        | )<br>ji           |            |              |          |                                     |              |          |                                     | .            |          |
|          |                   |            |              |          |                                     |              |          |                                     |              |          |
|          | 101               |            |              |          |                                     |              |          |                                     |              |          |
|          | 102               |            |              |          |                                     |              |          |                                     |              |          |
|          | 103               |            |              |          |                                     |              |          |                                     |              |          |
|          | 104<br>105        |            |              |          |                                     |              |          |                                     |              |          |
|          | 105               |            |              |          |                                     |              |          |                                     |              |          |
|          | 106               |            |              |          |                                     |              |          |                                     |              | _        |
|          | 107               |            | _            |          |                                     |              |          |                                     |              | _        |
|          | 108               |            |              | _        |                                     |              |          |                                     |              |          |
|          | 109               |            |              | _        |                                     | _            |          |                                     |              |          |
|          | 110               |            |              | _        |                                     |              |          |                                     |              |          |
| ļ        | 111               |            |              |          |                                     |              |          |                                     | _            |          |
|          | 112<br>113        |            |              |          |                                     | ļ            |          |                                     |              |          |
|          | 113               |            | _            | _        | Ь.                                  |              |          |                                     | _            |          |
|          | 114<br>115<br>116 |            | L            | _        |                                     | <u> </u>     |          |                                     | _            |          |
|          | 115               |            | <u> </u>     |          |                                     |              |          |                                     |              |          |
|          | 116               |            | Ĺ            |          |                                     |              |          |                                     |              |          |
|          | 117               |            | <u> </u>     |          |                                     |              |          |                                     |              |          |
|          | 118<br>119        |            | L            |          |                                     |              | _        |                                     |              |          |
|          | 119               |            |              |          |                                     |              |          |                                     |              |          |
|          | 120               |            |              |          | L                                   |              |          | _                                   |              |          |
| ļ        | 120<br>121        |            |              |          |                                     |              |          | <u> </u>                            |              |          |
|          | 122               |            |              | L        |                                     |              | L        |                                     |              |          |
| <u></u>  | 123<br>124        | L          |              |          |                                     | L_           |          | L                                   | _            |          |
|          | 124               | <u> </u>   |              |          | L                                   | _            | _        |                                     |              |          |
|          | 125               |            |              |          |                                     |              |          | L                                   | _            |          |
|          | 126<br>127        | <u> </u>   | _            | <u> </u> |                                     | L.           | _        | _                                   | <u> </u>     |          |
|          | 127               |            | _            |          | L_                                  | _            |          | L                                   | _            | L_       |
|          | 128               |            | _            | <u> </u> | <u> </u>                            | L_           |          |                                     | <u> </u>     | <u> </u> |
|          | 129               |            | <u> </u>     |          | _                                   | 1_           |          |                                     |              | L        |
|          | 130               |            |              |          |                                     | _            | L        |                                     | L            | <u> </u> |
|          | 131               |            |              |          | L                                   | _            |          |                                     | Ь.           |          |
|          | 132               |            | <u> </u>     |          |                                     |              | <u> </u> |                                     | L            |          |
|          | 133               |            |              |          | <u> </u>                            |              | <u> </u> | _                                   |              |          |
|          | 134<br>135        |            | _            | _        | <u> </u>                            |              |          |                                     |              |          |
|          | 135               |            |              | _        |                                     | _            |          | _                                   | _            |          |
|          | 136               |            | _            |          |                                     |              |          | L                                   | L            |          |
| <u></u>  | 137<br>138        |            |              | <u> </u> | L                                   |              | ļ        | L                                   | <u> </u>     |          |
| <u></u>  | 138               | L.         |              | <u> </u> | L_                                  | <u> </u>     | _        |                                     | <u> </u>     | ļ        |
|          | 139               | _          | <u> </u>     | ļ        |                                     |              |          | L.                                  | <u> </u>     |          |
|          | 140               | _          |              | _        |                                     |              |          | L                                   | <u> </u>     |          |
|          | 141               | L          | ļ            |          |                                     | <u> </u>     |          | L_                                  | $oxed{oxed}$ | ļ        |
|          | 142               | _          | $oxed{oxed}$ | _        | 1_                                  | <u> </u>     | <u> </u> | L                                   | L            |          |
| <u></u>  | 143               | lacksquare | L            | <u> </u> | <u> </u>                            | <u> </u>     | L        | <u> </u>                            | _            |          |
| <u> </u> | 144               | _          | <u>L</u>     | oxdot    | <u> </u>                            | $oxed{oxed}$ |          | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u>     | _        |
|          | 145               | <u> </u>   | ļ            | $\perp$  | <u> </u>                            | _            | _        |                                     | <u> </u>     | L        |
|          | 146               |            |              | <u> </u> | igspace                             | <u> </u>     | L.,      | <u> </u>                            | _            | L.       |
|          | 147               |            | Ц.           | oxdot    | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | $\perp$      | <u> </u> | <u> </u>                            | $oxed{oxed}$ |          |
|          | 148               | <u> </u>   | 乚            | <u></u>  | <u> </u>                            | _            | L_       | _                                   | _            | L_       |
|          | 149               | <u> </u>   | $\perp$      | <u> </u> | <u> </u>                            | L.           | <u> </u> | $oxed{oxed}$                        | <u> </u>     | L        |
| L        | 150               | <u></u>    | <u> </u>     | <u> </u> | <u></u>                             | <u>L</u>     | <u> </u> |                                     |              |          |